3 OC1-Inspect dimensions to dimension sheet 0.00 120 *120*

Memo

0.00 _

and 13/10/13

Quality Control

| 11CD 1/ / 11 | |
|---------------|--|
| NCR: Yes / No | |

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: ___

| NCR: | res | / NO | | | | WORK ORDER NON-C | COIVI | roki | VIANCE / OPI | | QA Closed: | Date: | |
|------------|------|--------------------------|-----------|----------|-----------------|--------------------------------|-------------|--|---------------------|---------------------|---------------|-------------------------|---------------------|
| Work Orde | er: | | ı | | | DISPOSITION | | | | AGAINST DE | PARTMENT | PROCESS | |
| Part 1 | | | | | | Rework Scrap | | ſ | Skid-tube Machining | Crosstube Small Fab | | Water Jet | Engineering Quality |
| NCR I | No. | | | | | Use-as-is Work Order Update | | Thermoforming Finishing Large Fab Composite | | | Rec/Stor | e/Packaging Supplier | Other |
| Root | | · | | | Descr | iption of work order update | lni | nitial Action | | ion | Sign & | | |
| Cause | | Date | Step | Qty | | or Non-conformance | Chie | ief Eng Description | | | Date | Verification | QC Inspector |
| oc/Data | | | | | | | | | | | | | · |
| perator | | | | | | | | | | - | | | |
| Material | | | | | | | | | | | | | |
| etup | | | | <u>.</u> | | | | | | | | | |
|)ther | | | | | | | | | | | | | |
| rocess | | | | <u> </u> | | ` | | | | | | | |
| upplier | _ | | | | | | | | | | | | |
| raining | | | | | | | | | | | | | |
| Inapproved | | | | | | | | | | | | | |
| | | | | • | | F | AULT | CATE | GORY | | | | |
| Landi | ng (| Gear | | | | General | | | | | | | |
| | | Bending | • | | | Bend | G | irain | | | Ovalized | | Pressure/Forced |
| | | Centre No | t Concer | ntric to | o/s 🗌 | BOM/Route | Н | lardwa | re | | Over/Under | tolerance | Temperature/Cure |
| , | | Cracks | | | | Broken/Damaged | ☐ Ir | nspecti | on Incomplete | | Part Incorred | et | Weld |
| | | Crushed/0 | Crimped. | | | Burrs | ∐]Ir | nstruct | ions Incomplete/U | Jnclear | Part Lost/Mi | ssing | Wrong Stock Pulled |
| | | Cuffs | | | | Contamination | | ⁄lainte | nance | | Part Moved | | _ |
| | | Heat Trea | t | | | Countersink | \square N | ⁄lislabe | led | | Positioned W | /rong | _ |
| | | Inspection | Strip in | Tube | | Cut Too Short | \square | /lisread | l | | Power Loss/: | Surge | Other |
| | | Ripples in | Bend | | | Drill Holes | | Offset | | | | | |
| | | Torque W | aves in E | xtrusio | n [| Drawing | | ot of C | Calibration | - | | | |
| | | Turning Sequence Finish | | | Out of Sequence | | | | | | | | |
| | | Wave/Twist in Tube Folio | | | | utside | Dimensions | | - | | | | |

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Powdercoat

Powder Coating

Memo

START TIME:

107966

Page 2

| October-07-13 | 9:03:19 AM | <u>'</u> | | | | | | | | | | was and make the |
|--|-------------------------|------------------------------------|------------------------|----------------------|---------------------------|-------|--------------|---------------|--------------|---------------|------------------|------------------|
| Item ID: Revision ID: | D2932-1 | | | Accept | *N900 | 040 | 100 |)* | Setup 'S | tart | *N. | S1 * |
| Item Name: | 206 Saddle l | Left Side | | | | | | | S | Stop | *N: | S2* |
| Start Date: Required Date | 10/07/13 e: 10/07/13 | Start Qty: 4.00 Req'd Qty: 4.00 | *4* *4* | | Cust Item II Customer: | D: | | | | | | 3 |
| Reference: Approvals: | | lan: | | _ | | ite: | | 1 | | Start Stop | *NI *NI | R1* |
| Sequence ID/ Work Center | | Operation Description | | Set Up/ Run Hours | Tool ID | Tool# | Plan Code | Accept Qty | Rejec Qty | | Reject Number | Insp. Stamp |
| *130 *130* QC Quality Control | | QC8- Inspect parts - sec Memo | ond check | 0.00 | (>-/(| 0-13 | , > | 4 | Ø | <u></u> | | |
| 140 * 140 * | | Chemical Conversion C | Coat per QSI005 4.1 | 0.00 | | | | 4 | 78 | Cu | 13.1C | 15 |
| HandFinish Hand Finishing | | Memo | | 0.00 | | | | | | | | |
| 150 *150* | | White Gloss(Ref: 4.3.5.1 | 1) per QSI005 4.3-Alum | 0.00 | | • | | 4 | Þ | , | 13-10: | 16_ |

| | | | | | | | | | | DQA: | Date: | · · · · · · · · · · · · · · · · · · · |
|---------------|------------------------|--|-----|--------|--|-----------------------------|------------------------|----------------|---------------|--|---------------------------|---------------------------------------|
| NCR: | Yes / No | | | | WORK ORDER NON-C | CONF | ORN | AANCE / UPDATE | | | | |
| | | | | | | | | | | QA Closed: | Date: | |
| Work Orde | er: | | | | DISPOSITION | | | AGAINST | DE | PARTMENT | PROCESS | |
| Part N | No | | | | Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite | | | | 1 | Water Jet d. Eng. Coor. e/Packaging Supplier | Engineering Quality Other | |
| Root | | | | Descri | ption of work order update | Init | ial | Action | | Sign & | | |
| Cause | Date | Step | Qty | (| or Non-conformance | Chief | Eng | Description | | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | |
| Material | | į | | | | | | | | | | |
| Setup | | | | | | | | | | | | |
| Other | | | | | | | | | | | | |
| Process | | | | | | | | | | | | |
| Supplier | | | | | | | | | | • | | |
| Training | | | |] | | | | | | | | |
| Unapproved | | | | | | | | | | | | |
| | FAULT CATEGORY | | | | | | | | | | | |
| Landir | ng Gear | | | | General | | | | | | - | |
| | Bending | Bending Bend | | | | Gr | rain | | | Ovalized | | Pressure/Forced |
| | Centre No | Centre Not Concentric to O/S BOM/Route | | | | На | ardwai | re | | Over/Under | tolerance | Temperature/Cure |
| | Cracks Broken/Damaged | | | | Ins | spection | on Incomplete | | Part Incorrec | rt 🗀 | Weld | |
| | Crushed/Crimped Burrs | | | | Ins | structi | ons Incomplete/Unclear | | Part Lost/Mi | ssing | Wrong Stock Pulled | |
| | Cuffs Contamination | | | | | | | | Part Moved | | | |
| | Heat Treat Countersink | | | | Countersink | Mislabeled Positioned Wrong | | | | | | |

Misread

Out of Calibration
Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

Folio

| Work Orde | | 966 | | *107 | 966* | | | | Page 3 | | | |
|--|---------------------------|---|----------------------------|--|--------------------------|------------|--------------|--------------------|-------------------|------------------|----------------|--|
| Item ID: Revision ID: | D2932-1 206 Saddle Lef | t Side | | Accept | *N900 | 040 | 100 |)* s | etup Star Stop | ı Vı . | S1* S2* | |
| Item Name: Start Date: Required Date: Reference: | 10/07/13 | Start Qty: 4.00 Req'd Qty: 4.00 | *4* *4* | | Cust Item I Customer: | D: | | n | Stor | | s. | |
| Approvals: | Process Plan | ı: | Date: | Tooling: | Da | ate: | | К | un Star | 1/11 | R1* | |
| | QC: | | Date: | SPC (Y/N): | Da | ate: | | | Stop | '*NI | R2* | |
| Sequence ID/ Work Center I 160 *160* QC Quality Control | | Operation Description QC3- Inspect Part Finish Memo | | Set Up/ Run Hours 0.00 9-89 0.00 \$\mathcal{B}\$. [O. | Tool ID | Tool# | Plan Code | Accept Qty 4 | Reject Qty | Reject Number | Insp. Stamp | |
| 170 | | Identify as per dwg & Stoo | ck Location: <u>ST4</u> 37 | 7 0.00 | | | | 11. | DAS | | : | |
| *170* Packaging | | Memo | | 0.00 | | | | _4x | 28 9-89 | 13-10 | -10 | |

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

180

180

Quality Control

At / M13-10-17

DQA:_____
NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE

| NCR: Y | es / No | | | | WORK ORDER NON-C | CONFO | RMANCE / UP | DAIE | QA Closed: | Date | :: | | |
|----------------------|------------|-------------|----------|----------|--------------------------------|--------------------------------|------------------------|------------------------|--------------------------------|----------------------------|---------------------|--|--|
| Work Orde | r· | | | | DISPOSITION | | _ | AGAINST DE | PARTMENT, | /PROCESS | | | |
| Part N | | | | | Rework Scrap |] | Skid-tube Machining | Crosstube Small Fab | Pro | Water Jet d. Eng. Coor. | Engineering Quality | | |
| NCR N | | | | | Use-as-is Work Order Update | Use-as-is Thermoforming Finish | | | ning Rec/Store/Packaging Other | | | | |
| Root | | | | Descr | iption of work order update | Initial | Ac | ction | Sign & | | | | |
| Cause | Date | Step | Qty | | or Non-conformance | Chief Er | g Desc | Date | Verification | QC Inspector | | | |
| Doc/Data | | | | | | | | | | | | | |
| quip/Tooling | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | |
| Material | _ | 1 | | | | | | | | | | | |
| Setup | _ | | | | | | | | | | | | |
| Other | _ | | | | | | | | | | | | |
| Process | _ | | | | | | | | | | · | | |
| Supplier Training | | | | | | | | | | | | | |
| Jnapproved | | | | | | | | | | | | | |
| 1, | | 5.47 | ~ | <u> </u> | F | AULT CAT | EGORY | | L | | | | |
| Landin | g Gear | 35 | ; | | General | | | | | | | | |
| ſ | Bending | (}- | .* | Γ | Bend | Grain | 1 | | Ovalized | Γ | Pressure/Forced | | |
| [| Centre No | ot Concer | ntric to | o/s | BOM/Route | Hardy | vare | | Over/Under | tolerance | Temperature/Cure | | |
| | Cracks | | | | Broken/Damaged | Inspe | ction Incomplete | | Part Incorre | ct | Weld | | |
| | Crushed/0 | Crimped. | | | Burrs | Instru | ctions Incomplete/ | /Unclear | Part Lost/M | issing | Wrong Stock Pulled | | |
| | Cuffs | | | | Contamination | Main | tenance | | Part Moved | | | | |
| | Heat Trea | ıt | | | Countersink | Misla | beled | | Positioned V | Wrong | | | |
| | Inspection | n Strip in | Tube | | Cut Too Short | Misre | ad | | Power Loss/ | 'Surge | Other | | |
| | Ripples in | | | | Drill Holes | Offse | t | | | | | | |
| | Torque W | aves in E | xtrusio | n _ | Drawing | Out o | f Calibration | | | | | | |
| 1 | | | | | Finish | Out of Sequence | | | | | | | |

Outside Dimensions

Date:

Wave/Twist in Tube

Folio

Picklist Print

October-07-13 9:03:19 AM

Work Order ID:

107966

Parent Item:

D2932-1

Parent Item Name:

206 Saddle Left Side

IDD: B00.06.26New DWG rev. (mpn.2069)FC

| Comments: | IPP: B00.06.26No | | | | | | | | | | | | |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------|--------------|---------------|----------------|--------|
| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
| D6101-003 | | Manufactured | No | | | 100 | Each | 22.0000 | 1 | 4 | | | |
| Saddle Billet, 7075 | | | | | | | | | | | | | |
| | | | | Location | | Loc Qty | <u>L</u> e | oc Code | | | | | |
| | | | | MAT042 | | 4 | | | | | | | |
| | | | | 103 | 592 | 4 | | | | · | | | |
| | | | | MAT045 | | 18 | | | , | | 711 | | |
| | | | | \$ 75 | 63 🖔 | 18 | | | 4 | | -199 | 3 <i>/1b1</i> | 12 |

Page 1

Required Date: 10/07/13

Start Date: 10/07/13 Start Qty: 4.00

Required Qty: 4.00

| DQA: | Date: | <i>~</i> . |
|------|-------|------------|
| | | |

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

| | | | | | | | | | | | QA Closed: | Date: | · |
|--------------|---|-----------------------------|-----------|----------|------|------------------------------|--------------------|------------|--|---|---------------|---|---------------------------|
| Nork Orde | r: | | | | | DISPOSITION | | | | AGAINST DE | PARTMENT | PROCESS | |
| Part N | Part No. Rework Scrap Use-as-is NCR No. Description of work order update | | | | | | | t Therm | Skid-tube Machining noforming Large Fab | Crosstube Small Fab Finishing Composite | 4 | Water Jet J. Eng. Coor. e/Packaging Supplier | Engineering Quality Other |
| Root | | · | | | Desc | ription of work order update | 1 | nitial | Act | tion | Sign & | | |
| Cause | | Date | Step | Qty | | or Non-conformance | Ch | ief Eng | Desci | ription | Date | Verification | QC Inspector |
| oc/Data | | | | | | | | | | | | | |
| quip/Tooling | T | | | | | | | | | | | | |
| perator | | | | | | | İ | | | | | | |
| laterial | | | | | | | | | | | | | |
| etup | | | ~ | | | | | | | | | | |
| ther | ╗ | | | | | | | | | | | | |
| rocess | | | | | | | | | | | | | |
| upplier | | | | | | | | | | | | | |
| raining | ╗ | | | | | • | | | | | | | |
| napproved | | | | | | | | : | | | | | |
| | | | | | | F | AUL | T CATE | GORY | | • | | |
| Landin | g G | iear | | | | General | | | | | | | |
| | | Bending | | , | Г | Bend | | Grain | | | Ovalized | | Pressure/Forced |
| Γ | | Centre No | t Concer | ntric to | o/s | BOM/Route | | Hardwa | re | | Over/Under | tolerance | Temperature/Cure |
| | | Cracks | | | | Broken/Damaged | | Inspecti | on Incomplete | | Part Incorred | rt 🗔 | Weld |
| Ī | | Crushed/0 | Crimped. | | [| Burrs | | Instruct | ions Incomplete/l | Unclear | Part Lost/Mi | ssing | Wrong Stock Pulled |
| Γ | | Cuffs | | | | Contamination | | Mainte | nance | | Part Moved | | |
| Ī | ٦ | Heat Trea | t | | r | Countersink | | Mislabe | led | | Positioned V | /rong | |
| | | Inspection | Strip in | Tube | | Cut Too Short | Г | Misread | | | Power Loss/ | Surge | Other |
| | \neg | Ripples in Bend Drill Holes | | | | Offset | | | | | , <u>-</u> | | |
| | 1 | Torque W | aves in E | xtrusio | , | Drawing | Out of Calibration | | | | | | |
| . - | _ | Turning Sequence Finish | | | | Out of Sequence | | | | | | | |
| | - | Waya/Twist in Tuba | | | | | \vdash | 1 | Dimonsions | | | | · |

| DART AEROSPACE LTD | Work Order: | 107966 |
|--|--------------|-------------|
| Description: 206 Saddle, Outboard, Left side | Part Number: | D2932-1 |
| Inspection Dwg: D2932 Rev. C | | Page 1 of 1 |

Inspect dimensions highlighted on inspection sheet drawing D2932 Rev. C and record below:

| | | | | Re | | | | | |
|-----|-------|-------|-------------------|--------|--------|-------|-------|----|------|
| Dim | Min | Max | Go/No Go Gauge | 1 | 2 | 3 | 4 | Ву | Date |
| Α | 0.100 | 0.140 | | .128 | .127 | 128 | 1128 | | |
| В | 0.100 | 0.140 | | 1.127 | .127 | .128 | .428 | | |
| С | 0.100 | 0.140 | | .114 | .115 | .1/6 | .//3 | | |
| D | 0.210 | 0.230 | | 222 | .225 | .225 | .227 | | |
| E | 1.245 | 1.255 | | 1.250 | 1.250 | 1.250 | 1.250 | | |
| F | 1.245 | 1.255 | | 1.250 | 1,250 | 1,250 | 1.250 | | |
| G | 2.495 | 2.505 | | 2.500 | 2.500 | 2.500 | 2.50 | | |
| Н | 0.510 | 0.515 | | .572 | .512 | .572 | .572 | | |
| l | 1.572 | 1.582 | | 1.577 | 1.577 | 1.577 | 1.577 | | |
| J | 2.495 | 2.505 | | 2,500 | 2500 | 2,500 | 2,500 | | |
| K | 0.257 | 0.262 | | .259 | .259 | .259 | .259 | | |
| L | 0.312 | 0.317 | | .314 | .315 | .315 | .315 | | |
| М | 0.235 | 0.240 | | 23% | .236 | ,236 | .236 | | |
| N | 0.100 | 0.140 | | 1125 | 125 | ./26 | 127 | | |
| 0 | 0.540 | 0.560 | | ,5410 | .54/0 | .54% | .54% | | |
| P | 0.490 | 0.510 | | .498 | 49% | .496 | .495 | | |
| Q | 3.715 | 3.725 | | 3.720 | 3.7.20 | 3,720 | 3.720 | | |
| R | 2.470 | 2.510 | | 2491 | 2.491 | 2.491 | 2,491 | | |
| S | 0.240 | 0.270 | | .252 | .254 | .25% | .255 | | |
| T | 0.100 | 0.180 | | .140 | .134 | .135 | 1135 | | |
| U | 1.625 | 1.635 | | 1.630 | 1.630 | 1.630 | 1.630 | | |
| V | 1.362 | 1.372 | | 1.367 | 1.367 | 1.367 | 1.367 | | • |
| W | 0.316 | 0.321 | | .317 | .3/7 | .3/3 | .3/7 | | |
| Χ | 1.125 | 1.145 | | 1.137 | 1.136 | 1.136 | 1.137 | | |
| Y | 1.565 | 1.585 | | 1.5765 | 1.575 | 1575 | 1.576 | | |
| Z | 0.178 | 0.198 | | 188 | 1.188 | .788 | .188 | | |
| AA | | | | | | | | | |
| AB | | | | | | | | | |
| AC | | | | | | | | | |
| AD | | | | | | | | | |
| ΑE | | | | | | | | | |
| AF | | | | | | | | | |
| AG | | | | | | | | | |
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| | / | ` \ |
|--------------|----------|----------------|
| Measured by: | amp | Audited by |
| Date: | 13/10/13 | Date: /3-10-/3 |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|---|------------|----------|
| Α | | New Issue | RF | |
| В | 02.12.12 | Re-format; Added Dim. X-Y, DT8683, DT8686, DT8690 | KJ/RF | |
| С | 07.03.21 | Revised per drawing revision C | KJ/JLM 🚓 | 411 |

